

FY 2008 NCSP Proposals

22-Dec-06

Task Identifier Laboratory Lead	Laboratory Lead	Task Title (Funded)	Cost \$k
ICSBEP-1 INL	INL	Conduct the ICSBEP for Benchmarks listed in Appendix C of the Five Year Plan and publish the annual revision to the Handbook	1,975
T&Q-1(3) ANL	ANL	Continue developing NCSET Modules	50
IP&D-2 LLNL	LLNL	Maintain the NCSP Website	175
T&Q-4 LLNL	LLNL	Conduct the 4-day hands on training course	400
ND-3 BNL	BNL	National Nuclear Data Center Support to the NCSP	110
ND-5 LANL	LANL	Nuclear Data Support to the NCSP	475
Methods-2(1) LANL	LANL	MCNP Maintenance and User Support	500
Methods-2(2) LANL	LANL	MCNP Nuclear Data Libraries	75
Methods-2(3) LANL	LANL	NJOY Maintenance and User Support	120
Integral Experiments-1 LANL	LANL	CEF Operational Support at the DAF	400
Integral Experiments-2 LANL	LANL	Conduct Subcritical Experiments at the DAF	525
Integral Experiments-3 LANL	LANL	Maintain and Train Operators	450
Integral Experiments-4 LANL	LANL	CEF Warehouse Maintenance	120
Differential Measurements-1 ORNL	ORNL	ORELA Measurements	350
Differential Measurements-2 ORNL	ORNL	ORELA Operations	620
ND-8(1) ORNL	ORNL	Data Evaluations and Covariance Data Generation	800
Methods-4(1) ORNL	ORNL	SCALE/KENO Maintenance, Training, and User Support	750
Methods-4(2) ORNL	ORNL	AMPX Cross Section Processing Methodology	110
Methods-4(3) ORNL	ORNL	Radiation Safety Information Computational Center: RSICC	560
Methods-5 ANL	ANL	Analytical Methods Support to the NCSP	510
ND-9 ANL	ANL	Nuclear Data Support to the NCSP	235
T&Q-5 ORNL	ORNL	Finish development of the TSUNAMI Primer with NCSET Module on the website (ongoing task from FY 2007)	25
TOTAL®			9,335

Ranking	Task Number	Task Identifier Laboratory Lead	Task Title (To be Prioritized)	Cost \$k	Average Ranking							Ranking	Ave Dev		
					A	B	C	D	E	F	G	(A+B+...+G)/7			
1	14	ND-6 LANL	LANL	Complete Low-Fidelity Covariance Data	100	1	7	1	4	14	12	5	6.2857	1	4.0
2	43	ND-10 ANL, LLNL, LANL & ORNL	ANL, LLNL, LANL & ORNL	Benchmark Specifications for Code Verification and Nuclear Data Validation.	120	5	5	3	18	1	8	13	7.5714	2	4.7
3	6	T&Q-3 LLNL	LLNL	Develop Advanced Hands-On Criticality Safety Training Course	250	4	10	13	15	13	6	4	9.2857	3	4.0
4	11	ND-4(1) BNL	BNL	Develop resonance model for EMPIRE (Mughabghab knowledge preservation)	55	31	3	2	9	4	1	15	9.2857	4	7.8
5	2	ICSBEP-3 INL & LANL	INL & LANL	Continue the IRSN Structural Material Experiments	450	17	1	12	6	16	16	10	11.1429	5	4.7
6	1	ICSBEP-2 INL	INL	Complete the Pu Solution Experiments and document them in the ICSBEP Handbook	130	9	13	9	22	15	20	1	12.7143	6	5.5
7	13	ND-4(3) BNL	BNL	Evaluation of neutron cross sections for Zr isotopes	50	28	6	4	8	18	7	18	12.7143	7	7.4
8	35	Methods-4(11) ORNL	ORNL	Low-Fidelity Covariance Data Testing	175	3	17	8	5	21	29	11	13.4286	8	7.6
9	15	Methods-3 LANL	LANL	MCNP Enhancements	400	20	2	7	1	22	14	31	13.8571	9	9.0
10	9	IP&D-1 LLNL	LLNL	Create a bibliography of classified criticality experiments	50	15	22	17	14	11	2	24	15.0000	10	5.1
11	4	T&Q-1(2) ANL/LLNL	ANL & LLNL	Conversion of two existing NCSET Modules into Multi-Media Modules	30	36	12	5	11	12	4	28	15.4286	11	9.5
12	12	ND-4(2) BNL	BNL	Evaluation of Mn-55+n in the fast neutron region	25	11	36	14	7	7	17	17	15.5714	12	6.7
13	21	Integral Experiments-5 LANL	LANL	Develop Hand-Stack Training Demonstration	300	16	4	22	30	23	13	3	15.8571	13	7.9
14	10	ND-2 LLNL	LLNL	Development of New Scattering Laws	200	34	32	18	2	3	5	19	16.1429	14	11.0
15	7	ND-1 LLNL	LLNL	COG/PREPROM Support	160	43	15	15	12	2	10	21	16.8571	15	8.7
16	3	T&Q-1(1) ANL/LLNL	ANL & LLNL	Multi-Media NCSET Module Development on Nuclear Instrumentation	20	30	37	10	10	5	3	30	17.8571	16	12.4
17	17	IP&D-3 Fluor	FLUOR	ARH-600 Updating	63	38	16	6	24	6	9	37	19.4286	17	11.6
18	24	ND-8(2) ORNL	ORNL	SAMMY Nuclear Modeling	390	6	25	25	16	19	21	27	19.8571	18	5.3
19	29	Methods-4(5) ORNL	ORNL	Validate Continuous Energy KENO (CE-KENO) Software for Release with SCALE	150	21	8	30	26	24	23	7	19.8571	19	7.1
20	30	Methods-4(6) ORNL	ORNL	Develop and Benchmark ENDF/B-VII SCALE Libraries: Continuous-Energy and Multigroup with Covariance Data	450	12	20	31	27	25	24	2	20.1429	20	7.6
21	8	Methods-1 LLNL	LLNL	Develop a Graphical User Interface for COG and MCNP	60	40	23	16	13	9	39	6	20.8571	21	11.3
22	34	Methods-4(10) ORNL	ORNL	Prepare Critical Experiment TSUNAMI S/U Data Files for Distribution by the ICSBEP	215	14	18	35	17	26	28	16	22.0000	22	6.6

